Heesting

November 21, 1948.

Dear

Isan sending the following, as requested:

SA-13. 5. typhisurium, monophasic II, an isolousine-valineless mutant. Lysogenic for

ST-36 S. gallinarum. (- sanguinarium). Can be grown with this sin or B; this zole supplement.

Lysogenicity is conveniently tested for either with simple filtrates of SW=13 grown alone, or better, with SY=36 in broth. For large scale tests for this property, SY=36 can be plated on synthetic agar with B₁, and single colonies of SW=13 picked to the pre-spread plates. Due to the matritional deficiency, the SW=13 does not grow, but if it carries phage, the lysis of the indicator is apparent. Sevebal hundred colonies of SW=13 from washed suspensions, and following various treatments, e.g. heavy UV treatment, cultivation in Phosphine CRN, or in arsenite, have all been lysogenic. It should be possible to set up tests where several hundred colonies of SW=13 can be allowedd to form on a plate, and use the ring of lysis around the colony for large scale testing.

Sincerely,

Joshua Lederberg

CC: Luria Hershey